



APPENDIX

CLAIM AMENDMENTS

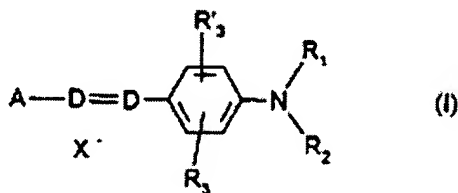
(Twice Amended)

A ready-to-use composition for dyeing keratin fibers,
comprising:

(i) at least one cationic direct dye chosen from compounds of formulae (I), (II), (III)
and (III') below, and

(ii) at least one thickening polymer;

(a) wherein said compounds of formula (I) are chosen from compounds of
formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

R_1 and R_2 , which may be identical or different, are chosen from a hydrogen atom;
a 4'-aminophenyl radical; and C_1 - C_4 alkyl radicals which can optionally be substituted
with a radical chosen from -CN, -OH and - NH_2 radicals; or

R_1 and R_2 may form, with each other or with a carbon atom of the benzene ring of
formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and
nitrogen, which can be substituted with at least one radical chosen from C_1 - C_4 alkyl
radicals;

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

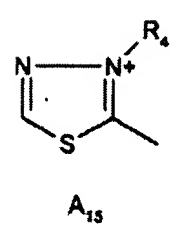
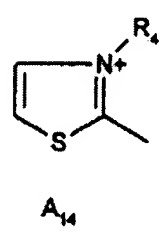
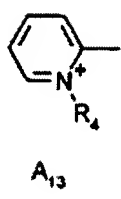
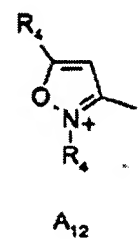
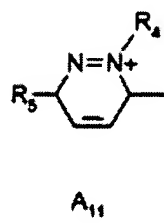
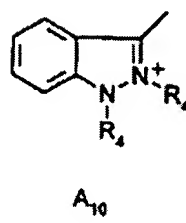
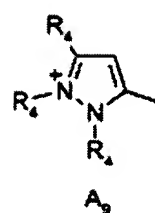
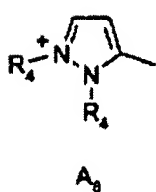
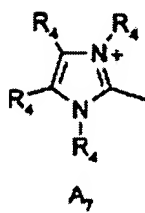
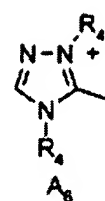
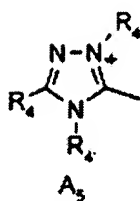
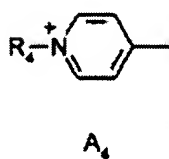
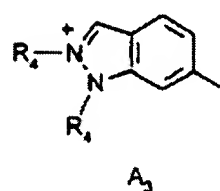
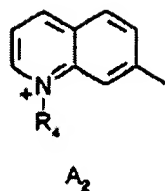
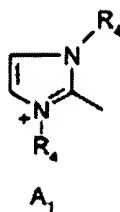
R_3 and R'_3 , which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C_1 - C_4 alkyl radicals, C_1 - C_4 alkoxy radicals and acetyloxy radicals,

X^- is chosen from anions,

A is chosen from structures A_1 to A_{19} below:

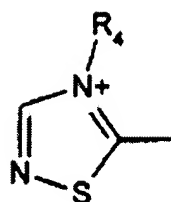
LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

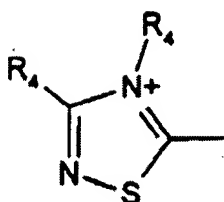


LAW OFFICES

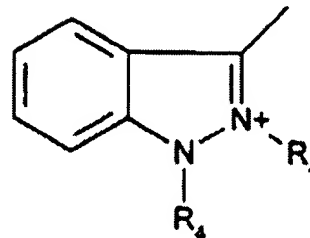
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



A₁₆

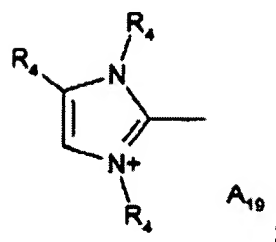


A₁₇



A₁₈

and



A₁₉

in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

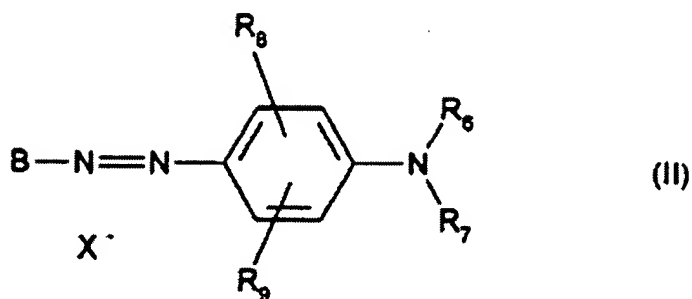
R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



in which:

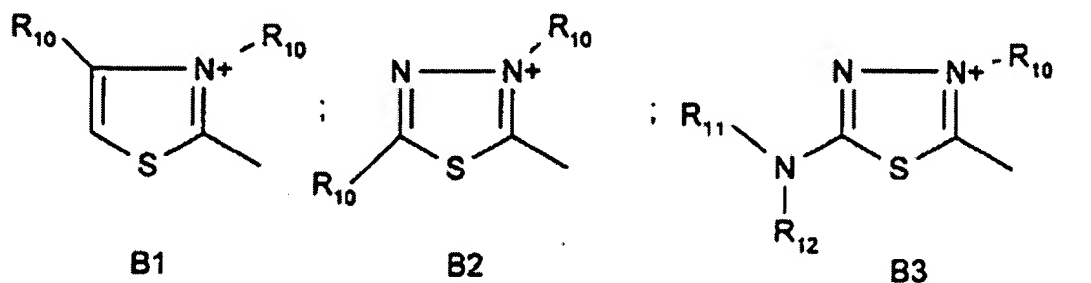
R_6 is chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

R_7 is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R_6 , a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C_1 - C_4 alkyl radicals,

R_8 and R_9 , which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C_1 - C_4 alkyl radicals, C_1 - C_4 alkoxy radicals and a -CN radical,

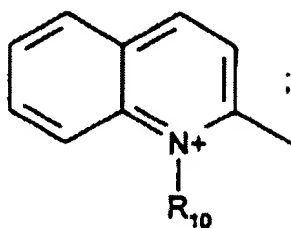
X^- is chosen from anions,

B is chosen from structures B_1 to B_6 below:

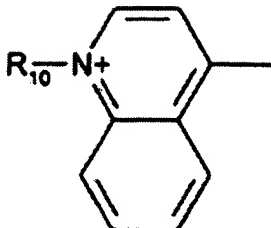


LAW OFFICES

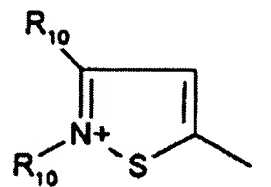
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



B4



B5



B6

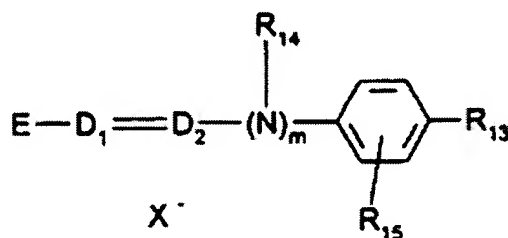
and

in which:

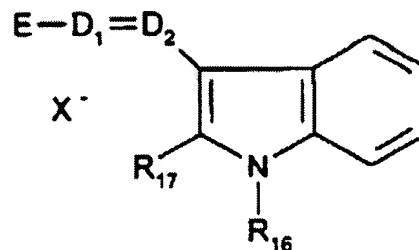
R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



(III)



(III')

in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R₁₄ is chosen from a hydrogen atom, C₁-C₄ alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C₁-C₄ alkyl radicals,

R₁₅ is chosen from a hydrogen atom and halogen atoms,

R₁₆ and R₁₇, which may be identical or different, are chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

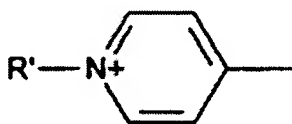
D₁ and D₂, which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

wherein when R₁₃ is an unsubstituted amino group, D₁ and D₂ are both a -CH group and m is 0,

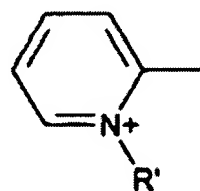
X⁻ is chosen from anions,

E is chosen from structures E₁ to E₈ below:



E1

;

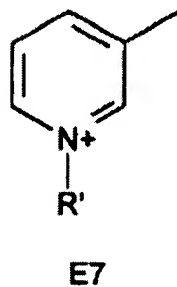
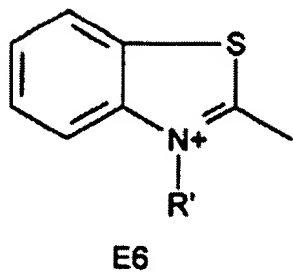
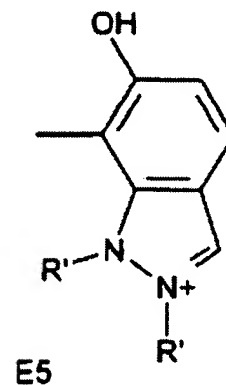
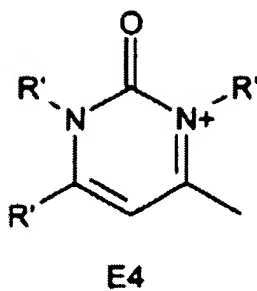
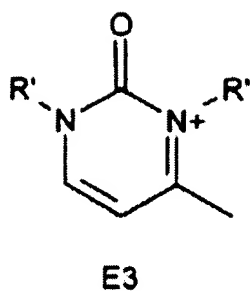


E2

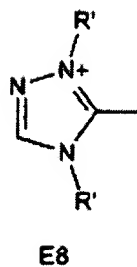
;

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

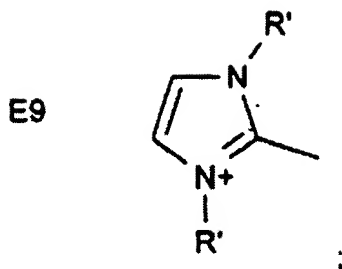


and



in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

and

(d) wherein said at least one thickening polymer is chosen from polymers comprising at least one sugar unit,

with the provisos that

(1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms,
- R₃ and R'₃ are simultaneously hydrogen atoms,
- R₁ and R₂ are simultaneously unsubstituted methyl radicals, and
- A is A₆ wherein R₄ is an unsubstituted methyl radical, or

(2) when said at least one cationic direct dye is chosen from compounds of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero,
- R₁₅ is a hydrogen atom,
- R₁₃ is a dimethylamino radical, and

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

- E is E₈ wherein R' is an unsubstituted methyl group,
then the at least one thickening polymer is not chosen from at least one nonionic guar
gum; and

with the further provisos that

(1) when said at least one cationic direct dye is chosen from compounds of
formula (I) wherein:

- both D's are simultaneously nitrogen atoms, and
- A is chosen from A₄ and A₁₃, or

(2) when said at least one cationic direct dye is chosen from compounds of
formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero, and
- E is chosen from E₁, E₂, and E₇,

then said at least one thickening polymer is not chosen from hydroxyalkylcelluloses and
carboxyalkylcelluloses.

42. (Twice Amended) The composition according to claim 1, wherein said at
least one cationic direct dye and said at least one thickening polymer are present in said
composition in an amount sufficient for lightening [direct] dyeing with said at least one
direct dye.

LAW OFFICES

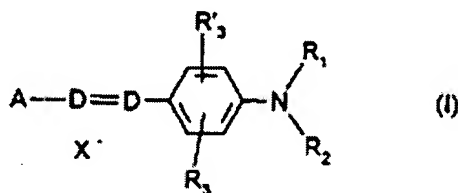
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

45. (Twice Amended) A process for dyeing keratin fibers, comprising applying at least one dye composition to said keratin fibers and developing for a period of time sufficient to achieve a desired coloration, wherein said at least one dye composition comprises:

(i) at least one cationic direct dye chosen from compounds of formulae (I), (II), (III) and (III') below, and

(ii) at least one thickening polymer;

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom,

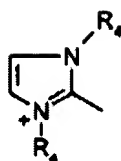
halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

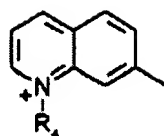
A is chosen from structures A₁ to A₁₉ below:

LAW OFFICES

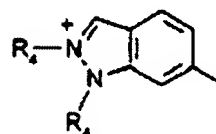
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



A₁



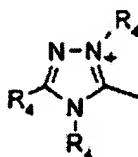
A₂



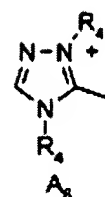
A₃



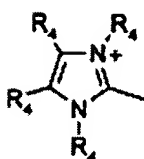
A₄



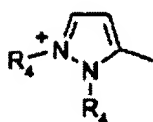
A₅



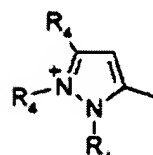
A₆



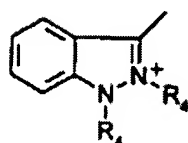
A₇



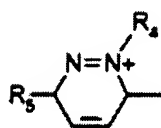
A₈



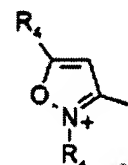
A₉



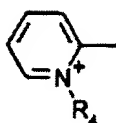
A₁₀



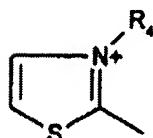
A₁₁



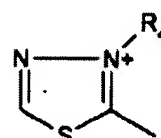
A₁₂



A₁₃



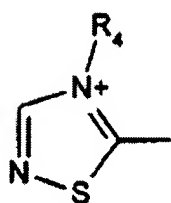
A₁₄



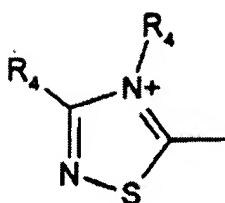
A₁₅

LAW OFFICES

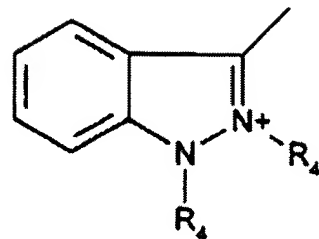
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



A₁₆

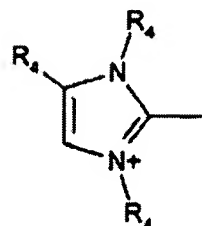


A₁₇



A₁₈

and



A₁₉

in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

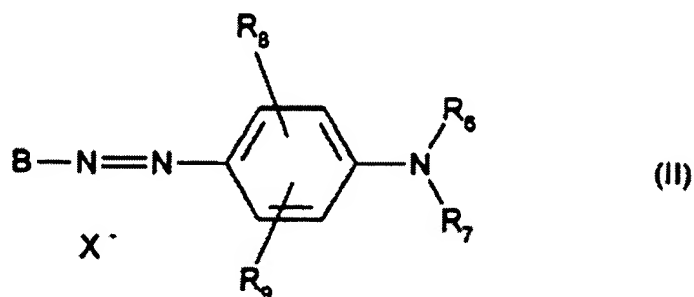
R₅ is chosen from C₁-C₄ alkoxy radicals, and

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

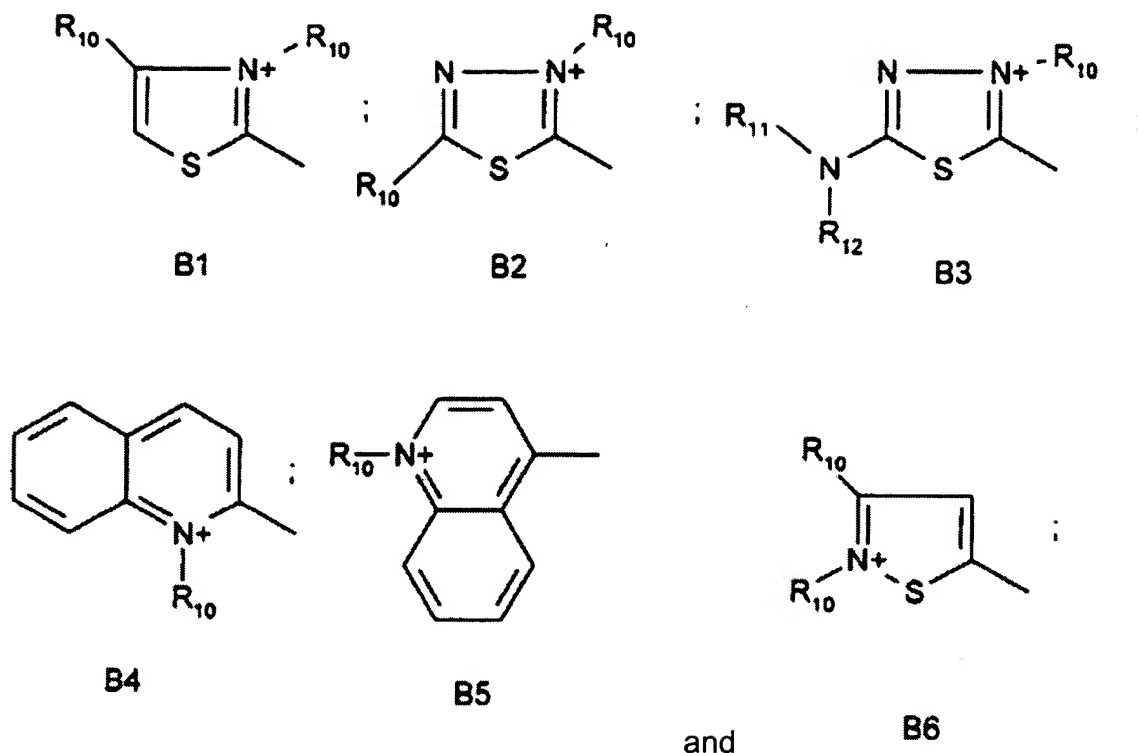
R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



in which:

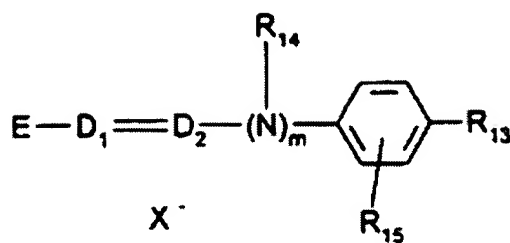
R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

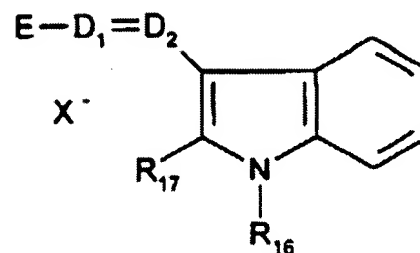
(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



(III)



(III')

in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one to radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

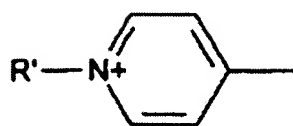
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

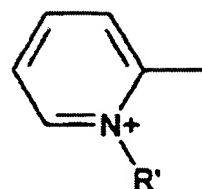
E is chosen from structures E_1 to E_8 below:

LAW OFFICES

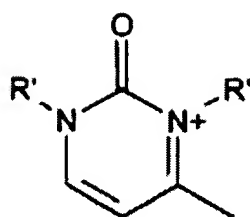
FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000



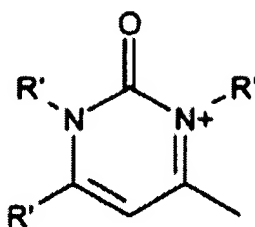
E1



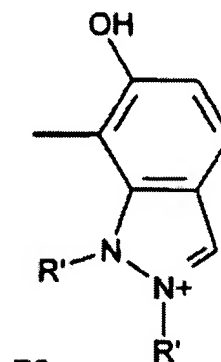
E2



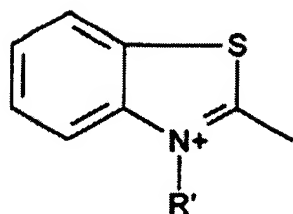
E3



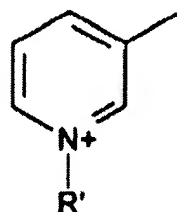
E4



E5

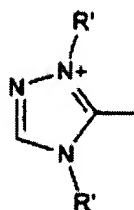


E6



E7

and



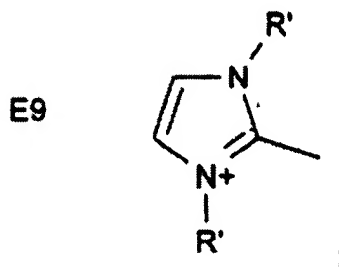
E8

in which R' is chosen from C₁-C₄ alkyl radicals;

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

and

(d) wherein said at least one thickening polymer is chosen from polymers comprising at least one sugar unit,

with the provisos that

(1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms,
- R₃ and R'₃ are simultaneously hydrogen atoms,
- R₁ and R₂ are simultaneously unsubstituted methyl radicals, and
- A is A₆ wherein R₄ is an unsubstituted methyl radical, or

(2) when said at least one cationic direct dye is chosen from compounds of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000

- m is zero,
- R₁₅ is a hydrogen atom,
- R₁₃ is a dimethylamino radical, and
- E is E₈ wherein R' is an unsubstituted methyl group,

then the at least one thickening polymer is not chosen from at least one nonionic guar gum; and

with the further provisos that

(1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms, and
- A is chosen from A₄ and A₁₃, or

(2) when said at least one cationic direct dye is chosen from compounds of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero, and
- E is chosen from E₁, E₂, and E₇,

then said at least one thickening polymer is not chosen from hydroxyalkylcelluloses and carboxyalkylcelluloses.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N. W.
WASHINGTON, DC 20005
202-408-4000